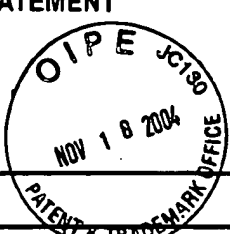


FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: NNM-001C2 APPLICANTS: Mayes <i>et al.</i> SERIAL NO.: 10/782,356 FILING DATE: February 19, 2004 GROUP: 1755			
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EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
Dr	A54	4,333,961	06/08/1982	Bruce <i>et al.</i>			
Dr	A55	5,427,767	06/27/1995	Kresse <i>et al.</i>			
Dr	A57	5,670,078	09/23/1997	Ziolo			
Dr	A56	6,361,161 B1	3/26/2002	Anstadt <i>et al.</i>			
Dr	A58	6,451,220 B1	09/17/2002	Ziolo <i>et al.</i>			
Dr	A59	2001/0009119 A1	07/26/2001	Murray <i>et al.</i>			
Dr	A60	2001/0055669 A1	12/27/2001	Schultz <i>et al.</i>			
Dr	A61	2003/0017336 A1	01/23/2003	Gedanken <i>et al.</i>			
Dr	A62	2003/0048341 A1	03/13/2003	Mutz <i>et al.</i>			
Dr	A63	2003/0059604 A1	03/27/2003	Hattori <i>et al.</i>			
Dr	A64	2003/0215634 A1	11/20/2003	Hattori <i>et al.</i>			

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Dr	B17	95/05669	02/23/1995	WO					Y
Dr	B18	96/22533	07/25/1996	WO					Y
Dr	B19	2004/027791 A1	04/01/2004	WO					Y
Dr	B20	1217616 A2	06/26/2002	EP					Y

OTHER ART, JOURNAL ARTICLES, ETC.	
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
Dr	C24 Calvert, "Inkjet Printing for Materials and Devices", Chemical Materials, Vol. 13, pp. 3299-3305, 2001.
Dr	C25 Roda <i>et al.</i> , "Protein Microdeposition Using a Conventional InkJet Printer", BioTechniques, Vol. 28, pp. 492-496, March 2000.
Dr	C26 Wooding <i>et al.</i> , "Proteins and Carbohydrates as Alternative Surfactants for the Preparation of Stable Magnetic Fluids", IEEE Transactions on Magnetics, Vol. 24, No. 2, March 1988.

EXAMINER <i>Edward A. Rens</i>	DATE CONSIDERED 4-13-2005
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U.S. PATENT DOCUMENTS							
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<i>PR</i>	A1	3,951,904	04/20/76	Tomonaga			
<i>PR</i>	A2	3,966,510	06/29/76	Aonuma <i>et al.</i>			
<i>PR</i>	A3	3,975,569	08/1976	Sugimatsu <i>et al.</i>			
<i>PR</i>	A4	4,009,111	02/22/77	Tamai <i>et al.</i>			
<i>PR</i>	A5	4,096,040	06/20/78	Grosko			
<i>PR</i>	A6	4,214,893	07/1980	Tsuganezawa <i>et al.</i>			
<i>PR</i>	A7	4,269,826	05/26/81	Zimmermann <i>et al.</i>			
<i>PR</i>	A8	4,425,261	01/10/84	Stenius <i>et al.</i>			
<i>PR</i>	A9	4,452,773	06/05/84	Molday			
<i>PR</i>	A10	4,452,896	06/1984	Blakemore <i>et al.</i>			
<i>PR</i>	A11	4,454,234	06/12/84	Czerlinski			
<i>PR</i>	A12	4,480,256	10/30/84	Wren			
<i>PR</i>	A13	4,533,582	08/1985	DePalma <i>et al.</i>			
<i>PR</i>	A14	4,666,773	05/1987	Kitamoto <i>et al.</i>			
<i>PR</i>	A15	4,672,040	06/09/87	Josephson			
<i>PR</i>	A16	4,735,796	04/05/88	Gordon			
<i>PR</i>	A17	4,778,671	10/18/88	Wusirika			
<i>PR</i>	A18	4,814,098	03/21/89	Inada <i>et al.</i>			
<i>PR</i>	A19	4,849,210	07/18/89	Widder			
<i>PR</i>	A20	5,043,101	08/27/91	Gordon			
<i>PR</i>	A21	5,062,991	11/05/91	Siiman <i>et al.</i>			
<i>PR</i>	A22	5,069,216	12/03/91	Groman <i>et al.</i>			
<i>PR</i>	A23	5,147,841	09/15/92	Wilcoxon			
<i>PR</i>	A24	5,217,804	06/1993	James <i>et al.</i>			

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DATE CONSIDERED

4-6-2005

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<i>RL</i>	A25	5,248,589	09/28/93	Bose <i>et al.</i>			
<i>RL</i>	A26	5,262,176	11/16/93	Palmacci <i>et al.</i>			
<i>RL</i>	A27	5,304,382	04/19/94	Monzyk			
<i>RL</i>	A28	5,328,681	07/12/94	Kito <i>et al.</i>			
<i>RL</i>	A29	5,338,617	08/16/94	Workinger <i>et al.</i>			
<i>RL</i>	A30	5,358,722	10/25/94	Monzyk			
<i>RL</i>	A31	5,437,892	08/01/95	Nagayama <i>et al.</i>			
<i>RL</i>	A32	5,443,813	08/22/95	Hainfeld			
<i>RL</i>	A33	5,487,954	01/1996	Chin <i>et al.</i>			
<i>RL</i>	A34	5,491,219	02/13/96	Mann			
<i>RL</i>	A35	5,505,996	04/09/96	Nagayama			
<i>RL</i>	A36	5,512,332	04/30/96	Liberti <i>et al.</i>			
<i>RL</i>	A37	5,543,226	08/06/96	Bobrich <i>et al.</i>			
<i>RL</i>	A38	5,547,748	08/20/96	Ruoff <i>et al.</i>			
<i>RL</i>	A39	5,552,072	09/03/96	Arase <i>et al.</i>			
<i>RL</i>	A40	5,552,229	09/03/96	Brodts <i>et al.</i>			
<i>RL</i>	A41	5,697,902	12/16/97	Goldenberg			
<i>RL</i>	A42	5,574,961	11-12-96	Edelstein <i>et al.</i>			
<i>RL</i>	A43	5,690,903	11-25-97	Hainfeld			
<i>RL</i>	A44	5,766,764	06-16-98	Olli <i>et al.</i>			
<i>RL</i>	A45	5,843,569	12-01-98	Kaitsu <i>et al.</i>			
<i>RL</i>	A46	5,916,539	06/29/99	Pilgrimm			
<i>RL</i>	A47	5,965,267	10/1999	Nolan <i>et al.</i>			
<i>RL</i>	A48	6,054,495	04/25/00	Markowitz <i>et al.</i>			
<i>RL</i>	A49	6,103,868	08/15/00	Heath <i>et al.</i>			
<i>RL</i>	A50	6,162,532	12-19-00	Black <i>et al.</i>			
<i>RL</i>	A51	6,180,389 B1	11/30/01	Douglas			
<i>RL</i>	A52	6,254,662 B1	07/03/01	Murray <i>et al.</i>			


















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David A. [Signature]




DATE CONSIDERED

4-6-2005


FORM PTO - 1449					ATTORNEY DOCKET NO.: NNM-001C2				
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<i>PR</i>	A53	6,262,129 B1	07/17/01	Murray <i>et al.</i>					
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<i>PR</i>	B1	42 44 354 A1	07/01/93	DE					Y
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<i>PR</i>	B4	0 586 052 B1	07/05/97	EP					Y
<i>PR</i>	B5	0 686 448 a2	12/13/95	EP					Y
<i>PR</i>	B6	0 884 739 A1	12/16/98	EP					Y
<i>PR</i>	B7	0 977 182 A2	02/02/00	EP					Y
<i>PR</i>	B8	1 186 659 A1	03/13/02	EP					Y
<i>PR</i>	B9	88/00060 A1	01/14/88	WO					Y
<i>PR</i>	B10	89/11154	11/16/89	WO					Y
<i>PR</i>	B11	93/05818 A1	04/01/93	WO					Y
<i>PR</i>	B12	98/29535	07/09/98	WO					Y
<i>PR</i>	B13	99/46782 A2	09/16/99	WO					Y
<i>PR</i>	B14	00/45171	08/06/00	WO					Y
<i>PR</i>	B15	00/71169 A2	11/30/00	WO					Y
<i>PR</i>	B16	01/74406 A2	10/11/01	WO					Y
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
<i>PR</i>	C1	Bidan <i>et al.</i> "New Nanocomposites Based on Tailor Dressed Magnetic Particles in a Polypyrrole Matrix" Advanced Materials, VCH Verlagsgesellschaft, Weinheim, Germany Vol. 6, No. 2, pgs. 152-155 (Feb. 1, 1994).							
<i>PR</i>	C2	Calvert <i>et al.</i> , "Biomimetic Mineralization in and on Polymers" Chem. Mater. (1996), 8, pp. 1715-1727.							
<i>PR</i>	C3	Dickson <i>et al.</i> , "Properties of Magnetoferritin: A Novel Biomagnetic Nanoparticle, 3 rd International Conference on Nanostructured Materials, Kona HI, 8-12 July 1996, Nanostructured Materials, Vol. 9, pp. 595-598.							
EXAMINER <i>Diana A. [Signature]</i>					DATE CONSIDERED 4-6-2005				

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	C4	Ford <i>et al.</i> , "Ferritin: Design and Formation of an Iron-Storage Molecule," Phil. Trans. R. Soc. Lond. Vol. B304, No. 1121, 2/13/84, pgs. 551-565.
	C5	Gider <i>et al.</i> "Classical and Quantum Magnetism in Synthetic Ferritin Proteins" Journal of Applied Physics, American Institute of Physics, New York, Vol. 79, No. 8, pgs. 5324-5326 (April 15, 1996)
	C6	Harris "The Production of Paracrystalline Two-Dimensional Monolayers of Purified Protein Molecules," Micron, Pergamon Press Ltd., United Kingdom, Vol. 13, No. 2, pgs. 147-168 (1982).
	C7	Huang <i>et al.</i> , Construction of a Ferritin Reactor: An Efficient Means for Trapping Various Heavy Metal Ions in Flowing Seawater", Journal of Protein Chemistry, Vol. 19, No. 6, 2000.
	C8	Hong J. <i>et al.</i> , "Granular Magnetic Cobalt Metal/Polymer Thin Film System," IEEE Transactions on Magnetics, Vol.32, No. 5, pgs. 4475-4477.
	C9	Kenji <i>et al.</i> , "Nanometer-Size Structures Fabricated by Bio-Nano-Process", Abstract, Meiji University.
	C10	Li <i>et al.</i> , "Growth of Single-Walled Carbon Nanotubes From Discrete Catalytic Nanoparticles of Various Sizes", J. Phys. Chem. B, 105, pp. 11424-11431, 2001.
	C11	Matsunaga "Synthesis of Nano-Scale Ultrafine Particles Using Biomolecules," Kagaku (Kyoto), Vol 46, ISS. 7, pg. 498 (1991).
	C12	Meldrum <i>et al.</i> "Synthesis of Inorganic Nanophase Materials in Supramolecular Protein Cages, " Nature, vol. 349, No. 21 (Feb. 1991).
	C13	Meldrum <i>et al.</i> , "Magnetoferritin: In Vitro Synthesis of a Novel Magnetic Protein", Science, Vol. 257, July 24, 1992, pgs. 522-523.
	C14	Meldrum, "Nanoscale Synthesis in Organized Assemblies (Ferritin, Electron Transfer, Magnetotactic Bacteria)," University of Bath (United Kingdom) (1992).
	C15	Moskowitz, <i>et al.</i> "Determination of the Preexponential Frequency Factor for Superparamagnetic Maghemite Particles in Magnetoferritin," J. Geophys. Res., Solid Earth, American Geophysical Union, Vol. 102, No. B10 (1997).
	C16	Price <i>et al.</i> , "Binding of Beryllium and Other Divalent Metal Ions," The Journal of Biological Chemistry, Vol. 258, No. 18, 9/25/83, pgs.10873-10880.
	C17	Stefanini <i>et al.</i> , "On the Mechanism of Horse Spleen Apoferritin Assembly: A Sedimentation Velocity and Circular Dichroism Study," Biochemistry, Vol. 26, No. 7, 4/7/87, pgs. 1831-1837.
	C18	Treffry <i>et al.</i> , "Spectroscopic Studies on the Binding of Iron, Terbium, and Zinc by Apoferritin," Journal of Inorganic Biochemistry, Vol. 21, No. 1 (1984), pgs. 9-20.
	C19	Wardeska <i>et al.</i> , "Metal Ion Complexes of Apoferritin," The Journal of Biological Chemistry, Vol. 261, No. 15, 5/25/86, pgs. 6677-6683.
	C20	Warne <i>et al.</i> , "Self Assembled Nanoparticulate Co : Pt for Data Storage Applications", IEEE Transactions on Magnetics, Vol. 36, No. 5, September 2000.

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	C21	Xu <i>et al.</i> "Collapse of Apo- and Magnetoferritins at the Air-Water Interface," J Colloid Interface Sci, vol. 167, No. 2, pgs. 314-319 (1994).
	C22	Yamashita, "Fabrication of a Two-Dimensional Array of Nano-Particles Using Ferritin Molecule", Thin Solid Films, 393, pp. 12-18, 2001.
	C23	Yau <i>et al.</i> , "Scanning Tunneling Microscopy of Ferritin Nanostructures", Modern Physics Letters B, Vol. 9, Nos. 3 & 4 (1995) pp-187-193.

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